Application No. 10/699,627
Preliminary Amendment dated February 11, 2004

Amendments to the Specification

Please replace paragraph [0035] with the amended paragraph below:

In addition to rotatably mounting the jetting dispenser 40 at an angle, other structures can be used to provide an angular jetting direction that is nonperpendicular with the substrate surface 80. For example, in another embodiment shown in Figs. 4 and 5, an angled nozzle 90 is mounted on the end of the dispenser 40. The angled nozzle 90 has an angled exit passage that terminates with an opening or dispensing orifice 92 in a side wall 94. The exit passage often has a length that is two or three times a diameter of the dispensing orifice 92. Further, the exit passage can be cylindrical with straight walls, or it can be tapered toward the dispensing orifice 92. The diameter of the dispensing orifice 92 is application dependent, and the optimum configuration and dimensions of the angled nozzle 90 are often determined by experimentation. With the angled exit passage of the nozzle 90, viscous material is ejected at an angle with respect to, or in a jetting direction that is nonperpendicular to upper substrate surface 80 without having to pivot the nozzle 90 as shown in Fig. 3. Once a desired jetting angle has been determined experimentally, for example, by performing a jetting process with the dispenser 40 rotated at different angles as described above, the angled nozzle 90 can be made to jet material at the desired jetting angle.